

**MODEL 601-1CM102
LOW NOISE TRANSDUCER
PREAMPLIFIER**

DL Instruments

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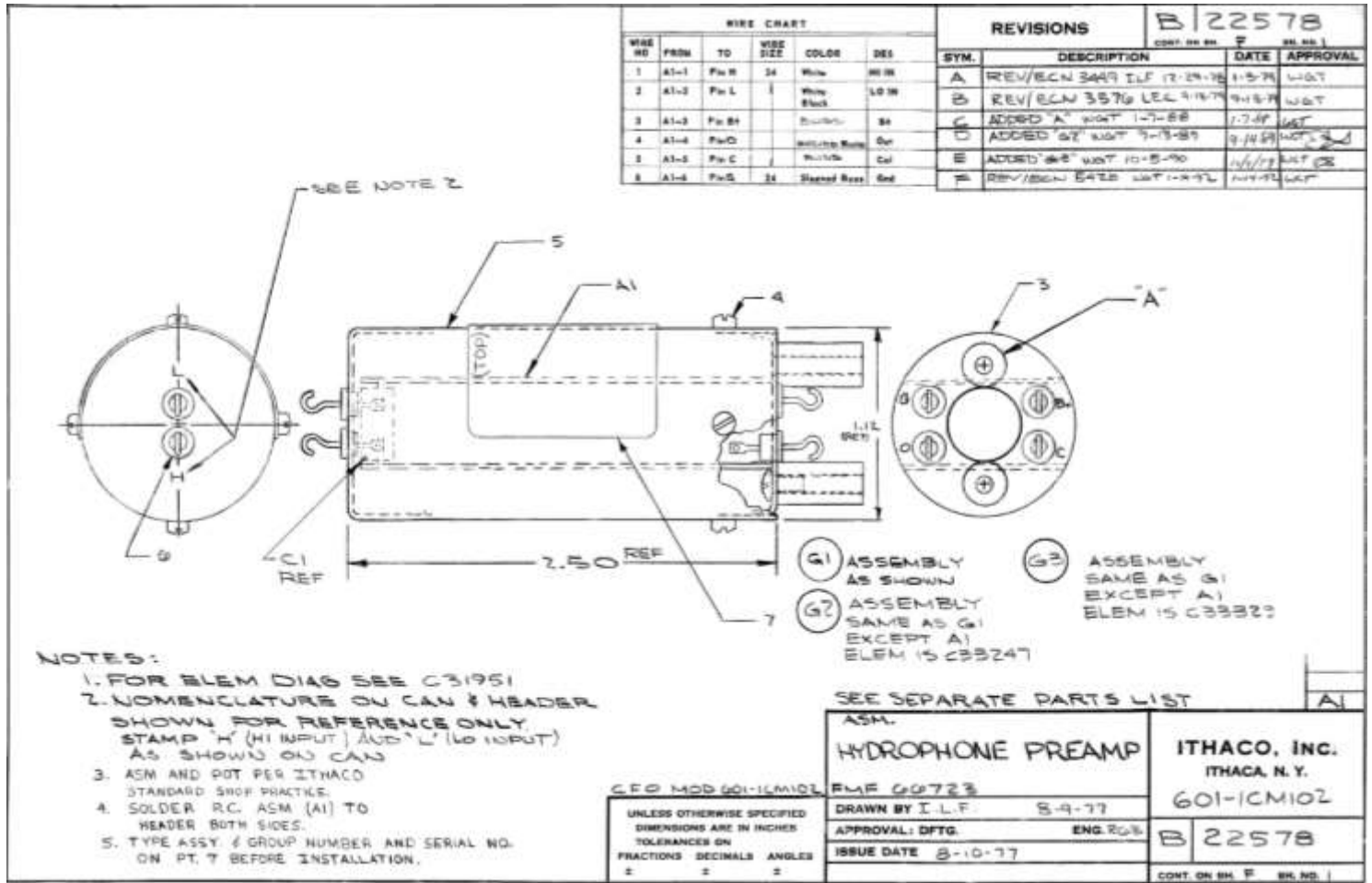
The Model 601-1CM102 was originally designed for use with a hydrophone in which the transducer was 100pF. CAL loss was 3 dB nominally, CAL attenuator is 19.7dB, and preamplifier gain is 23 dB. It provides high performance, including gain stability, and noise over the 100Hz to 100kHz band while providing a balanced line driving capability.



601-1CM102 Hydrophone Amplifier

OUTLINE DRAWING

1.12 inch diameter X 2.5 inch long hermetically sealed cylindrical module. Input on one end, all other functions on opposite end to make it convenient for applications where signal flow is in a straight line.



Outline Drawing

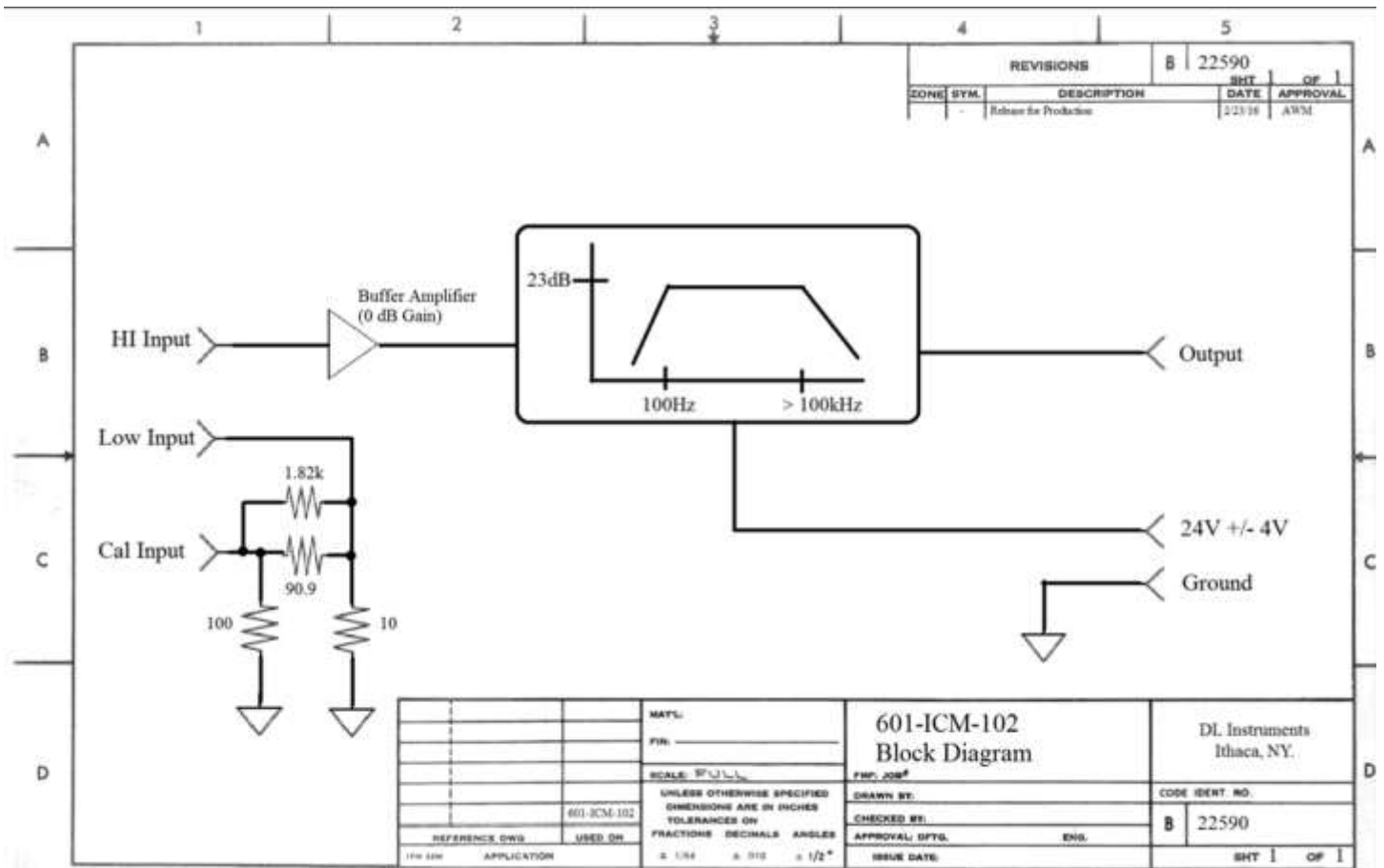
PIN CONNECTIONS

INPUT END:

- L INPUT LO
- H INPUT HI

OUTPUT END:

- O OUTPUT
- G GROUND
- C CAL INPUT
- B+ POWER



601-1CM102 Block diagram

SPECIFICATIONS

FORWARD GAIN: 23dB

FREQUENCY RESPONSE (100pF source): -6dB at 100 Hz, -1dB@ 100 kHz

INPUT R: 110 Meg Ω // 15 pF

NOISE (100pF source):

| | |
|--------|-----------|
| 100 Hz | -134 dB V |
| 10 kHz | -163 dB V |

| | |
|--------------------------------|--|
| MAXIMUM OURPUT, LINEAR: | 3.5 V rms, unterminated |
| OUTPUT IMPEDANCE: | < 51Ω |
| CAL RESISTORS: | -19.7 dB Cal Pad, 49Ω input |
| POWER SUPPLY VOLTAGE: | 20V to 28V |
| SUPPLY CURRENT: | 17mA to 28mA |
| OPERATING TEMPREATURE: | -25° C to +55° C operation -55° C to +85° C storage |
| HYDROSTATIC PRESSURE: | Rated to 1500 PSI |

For more information please contact:

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